

Substitute for form 1449/PTO  
(Rev. 04/2003)

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

## Complete if Known

Application Number 10/627,166  
Filing Date July 25, 2003  
First Named Inventor Charles E. Price  
Group Art Unit 1755  
Examiner Name Paul Marti  
Attorney Docket Number 046478.263692

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS SUBCLASS	
					Pages, Columns, Lines, Where Relevant Figures of Relevant Figures appear	
Jm	1	3,961,973	06-08-1976	Jones	-	-
	2	3,962,080	06-08-1976	Dulin et al.	-	-
	3	4,040,852	08-09-1977	Jones	-	-
	4	4,050,258	09-27-1977	Brewer et al.	-	-
	5	4,050,261	09-27-1977	Brewer et al.	-	-
	6	4,050,950	09-27-1977	Brewer et al.	-	-
	7	4,062,195	12-13-1977	Brewer et al.	-	-
	8	4,081,285	03-28-1978	Pennell	-	-
	9	4,143,202	03-06-1979	Tseng et al.	-	-
	10	4,212,682	07-15-1980	Burkett	-	-
	11	4,250,134	02-10-1981	Minnick	-	-
	12	4,313,762	02-02-1982	Pound	-	-
	13	4,344,796	08-17-1982	Minnick	-	-
	14	4,373,958	02-15-1983	Jones et al.	-	-
	15	4,397,801	08-09-1983	Minnick	-	-
	16	4,403,006	09-06-1983	Bruce et al.	-	-
	17	4,461,601	07-24-1984	Pound	-	-
	18	4,472,198	09-18-1984	Nowicki et al.	-	-
	19	4,613,374	09-23-1986	Smith	-	-
	20	4,617,045	10-14-1986	Bronstein	-	-
	21	4,624,711	11-25-1986	Styron	-	-
	22	4,720,295	01-19-1988	Bronstein	-	-
	23	4,731,120	03-15-1988	Tuutti	-	-
	24	4,741,782	05-03-1988	Styron	-	-
	25	4,759,632	07-26-1988	Horiuchi et al.	-	-

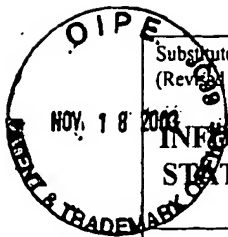
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*Paul Marti*

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11/16/05

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Group Art Unit	
Examiner Name	
Attorney Docket Number	046478.263692

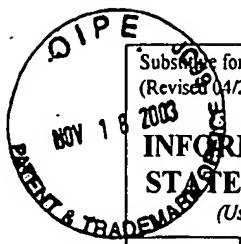
U. S. PATENT DOCUMENTS					CLASS	SUBCLASS
26	4,772,330	09-20-1988	Kobayashi et al.	—	—	
27	4,780,144	10-25-1988	Loggers	—	—	
28	4,804,147	02-14-1989	Hooper	—	—	
29	4,844,015	07-04-1989	Garvey et al.	—	—	
30	4,852,504	08-01-1989	Barresi et al.	—	—	
31	4,872,993	10-10-1989	Harrison	—	—	
32	4,915,741	04-10-1990	Biagini et al.	—	—	
33	4,917,023	04-17-1990	Jones	—	—	
34	4,917,733	04-17-1990	Hansen	—	—	
35	4,992,102	02-12-1991	Barbour	—	—	
36	4,996,943	03-05-1991	Garvey	—	—	
37	5,019,310	05-28-1991	Kobayashi	—	—	
38	5,037,286	08-06-1991	Roberts	—	—	
39	5,040,920	08-20-1992	Forrester	—	—	
40	5,044,286	09-03-1991	Breen et al.	—	—	
41	5,051,031	09-24-1991	Schumacher et al.	—	—	
42	5,061,318	10-29-1991	Casey et al.	—	—	
43	5,100,473	03-31-1992	Mitsuda et al.	—	—	
44	5,106,422	04-21-1992	Bennett et al.	—	—	
45	5,137,753	08-11-1992	Bland et al.	—	—	
46	5,143,481	09-01-1992	Schumacher et al.	—	—	
47	5,164,008	11-17-1992	Casey et al.	—	—	
48	5,180,421	01-19-1993	Rostoker, deceased et al.	—	—	
49	5,183,710	02-02-1993	Gerbino	—	—	
50	5,196,620	03-23-1993	Gustin et al.	—	—	
51	5,199,377	04-06-1993	Gehrmann, III et al.	—	—	
52	5,207,164	05-04-1993	Breen et al.	—	—	

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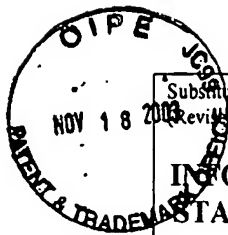
Application Number	10/627,166
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First Named Inventor	Charles E. Price
Group Art Unit	
Examiner Name	
Attorney Docket Number	046478.263692

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U. S. PATENT DOCUMENTS					CLASS	SUBCLASS
53	5,207,830	05-04-1993	Cowan et al.			
54	5,255,615	10-26-1993	Magaldi			
55	5,268,028	12-07-1993	Fifield			
56	5,268,131	12-07-1993	Harrison			
57	5,282,430	02-01-1994	Nehls, Jr.			
58	5,286,430	02-15-1994	Downs et al.			
59	5,299,692	04-05-1994	Nelson et al.			
60	5,320,051	06-14-1994	Nehls, Jr.			
61	5,340,235	08-23-1994	Milliken			
62	5,358,760	10-25-1994	Furlong et al.			
63	5,362,319	11-08-1994	Johnson			
64	5,466,407	11-14-1995	Downs et al.			
65	5,472,499	12-05-1995	Crocker			
66	5,520,730	05-28-1996	Barbour			
67	5,534,058	07-09-1996	Strabala			
68	5,545,805	08-13-1996	Chesner			
69	5,551,806	09-03-1996	Milliken			
70	5,615,523	04-01-1997	Wells et al.			
71	5,616,160	04-01-1997	Alexander et al.			
72	5,624,491	04-29-1997	Liskowitz et al.			
73	5,645,518	07-08-1997	Wagh et al.			
74	5,678,234	10-14-1997	Colombo et al.			
75	5,681,384	10-28-1997	Liskowitz et al.			
76	5,711,126	01-27-1998	Wells			
77	5,711,796	01-27-1998	Grzybowski et al.			
78	5,772,751	06-30-1998	Nisnevich et al.			
79	5,772,752	06-30-1998	Liskowitz et al.			

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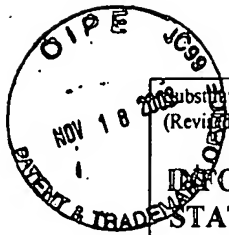


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				Examiner Name	
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U. S. PATENT DOCUMENTS					CLASS	SUBCLASS
Jm	80	5,772,937	06-30-1998	Cohen et al.	—	—
	81	5,830,815	11-03-1998	Wagh et al.	—	—
	82	5,837,052	11-17-1998	Oates et al.	—	—
	83	5,849,075	12-15-1998	Hopkins et al.	—	—
	84	5,853,475	12-29-1998	Liskowitz et al.	—	—
	85	5,897,704	04-27-1999	Baglin	—	—
	86	5,935,885	08-10-1999	Hnat et al.	—	—
	87	5,936,216	08-10-1999	Wu	—	—
	88	5,965,201	10-12-1999	Jones, Jr.	—	—
	89	5,974,762	11-02-1999	Rodgers	—	—
	90	5,976,224	11-02-1999	Durant et al.	—	—
	91	5,988,864	11-23-1999	Bracegirdle	—	—
	92	5,992,336	11-30-1999	Ramme	—	—
	93	6,021,611	02-08-2000	Wells et al.	—	—
	94	6,030,446	02-29-2000	Doty et al.	—	—
	95	6,038,987	03-21-2000	Koshinski	—	—
↓	96	6,054,074	04-25-2000	Wu et al.	—	—
	97	6,068,803	05-30-2000	Weyand et al.	—	—
	98	6,083,431	07-04-2000	Ikari et al.	—	—
	99	6,079,175	06-27-2000	Clear	—	—
	100	6,105,335	08-22-2000	Vohra	—	—
	101	6,112,492	09-05-2000	Wells et al.	—	—
	102	6,145,343	11-14-2000	Jantzen et al.	—	—
	103	6,168,709 B1	01-02-2001	Etter	—	—
	104	6,180,192 B1	01-30-2001	Smith et al.	—	—
	105	6,200,379 B1	03-13-2001	Strabala	—	—
	106	6,204,430 B1	03-20-2001	Baldwin et al.	—	—

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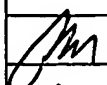

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U. S. PATENT DOCUMENTS					CLASS	SUBCLASS
	107	6,213,754 B1	04-10-2001	Doty et al.	—	—
	108	6,240,859 B1	06-05-2001	Jones, Jr.	—	—
	109	6,250,235 B1	06-26-2001	Oehr et al.	—	—
	110	6,258,994 B1	07-10-2001	Jantzen et al.	—	—
	111	6,269,952 B1	08-07-2001	Watt et al.	—	—
	112	6,277,189 B1	08-21-2001	Chugh	—	—
	113	6,309,570 B1	10-30-2001	Fellabaum	—	—
	114	6,319,482 B1	11-20-2001	Sawell et al.	—	—
	115	6,334,895 B1	01-01-2002	Bland	—	—
	116	2002 0086790 A1	07-04-2002	Jensen et al.	—	—

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached

OTHER DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached

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Examiner Name	Not assigned
Attorney Docket Number	046478.263692

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Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear

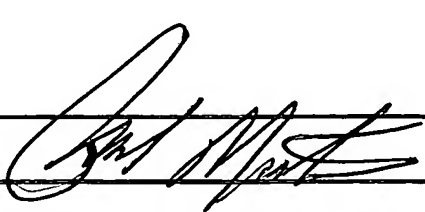
**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
	117	WO 98/01404	01-15-1998	Pittsburgh Mineral & Environmental Technology, Inc.		
	118	GB 1 564 600	04-10-1980	Wexham Developments Ltd.		
	119	JP 2001261416	09-01-2001	Taiheiyō Cement Corp.		Abstract Only

**OTHER DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached

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